

U.S.S.N. 10/003,529

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IN THE SPECIFICATION:

A1 [0040] In one preferred embodiment of the present invention, the input glass used in the reinforcement rods 18 is multiple ends of elongated E-type glass fiber members 24 or multiple ends of elongated S-type glass fiber members 26 having a linear density or tex of approximately 200-4000 gm/km. The glass fiber members 24, 26 are sized with a vinyl ester compatible sizing. The glass fiber members 24, 26 are then coated with Vinch 500, an UV curable vinyl ester resin manufactured by Zeon Technologies. The Vinch 500 resin is an UV curable copolymer of novolac vinyl ester (approximately 55% by weight) and 1,6 hexane diol diacrylate (approximately 45% by weight) that is applied between approximately 65 and 100 degrees Celsius. The resin is then cured under UV lighting. The topcoat 32 applied is a polybutylene terephthalate/polyether glycol copolymer topcoat 32 such as Hytrel® G4778, manufactured by E. I. Du Pont de Nemours, which is pumped in at approximately 230 degrees Celsius.

A2 [0043] In another preferred embodiment of the present invention, the input glass used in the fiber reinforcement rods 18 is multiple ends of elongated E-type glass fiber members 24 or multiple ends of elongated S-type glass fiber members 26 having a linear density or tex of approximately 200-4000 gm/km. The glass fiber members 24, 26 are sized with a vinyl ester compatible sizing. The glass fiber members 24, 26 are then coated with 17-41B, an UV curable vinyl ester resin manufactured by Zeon Technologies. The 17-41B resin is an UV curable copolymer of novolac vinyl ester (approximately 50% by weight) and dipropylene glycol diacrylate (approximately 50% by weight) that is applied between approximately 65 and 100 degrees Celsius. The resin is then cured under UV lighting. The topcoat 32 applied is a polybutylene terephthalate/polyether glycol copolymer topcoat 32 such as Hytrel® G4778, manufactured by E. I. Du Pont de Nemours, which is pumped in at approximately 230 degrees Celsius.